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Amendments to the Abstract

ABSTRACT OF THE DISCLOSURE

The present invention includes a method of growing a doped glass layer ~~[[films]]~~ suitable for optical applications on a substrate comprising the steps of conveying an organometallic compound of the formula $(R_2SiO)_jM(OR')_k$ ~~$(R_2SiO)_jM(OR')_k$~~ to the substrate and reacting the silica forming substance and the organometallic compound to form the optical layer on the substrate, where M is a metal; R_2 is methyl, ethyl or propyl; R' ~~[[R'-]]~~ is methyl, ethyl, n-propyl, n-butyl, isobutyl or s-butyl; j is 1, 2, 3 or 4; and $k=4-j$. The present invention also includes planar optical devices made by the above method. Additionally, the present invention includes an optical fiber made by the above method.